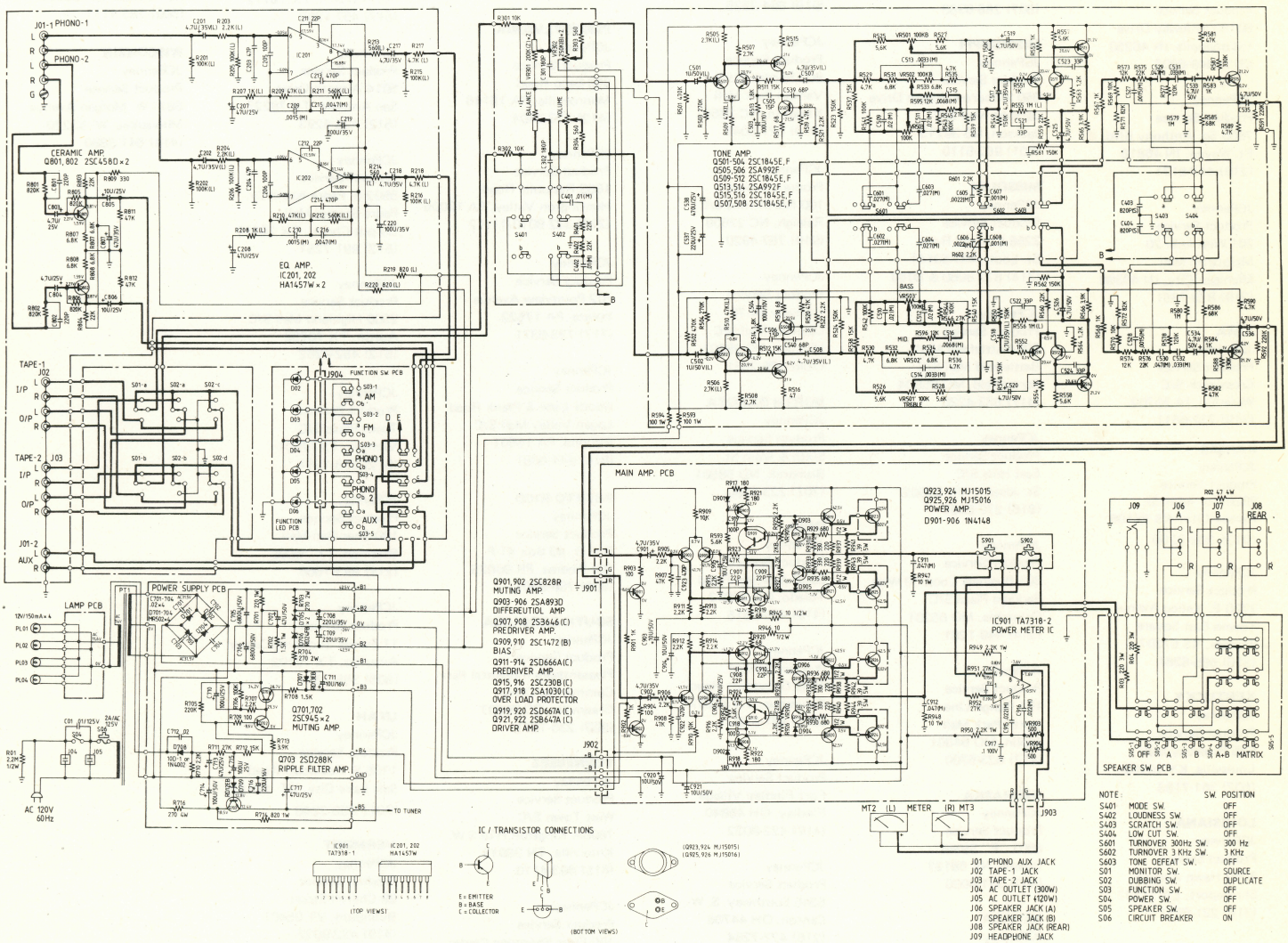


**MCS<sup>®</sup>**  
Series  
**Modular Component Systems**  
Stereo Receiver Model No. 683-3245

**CIRCUIT DIA**

Q101 3SK45C  
FM RF

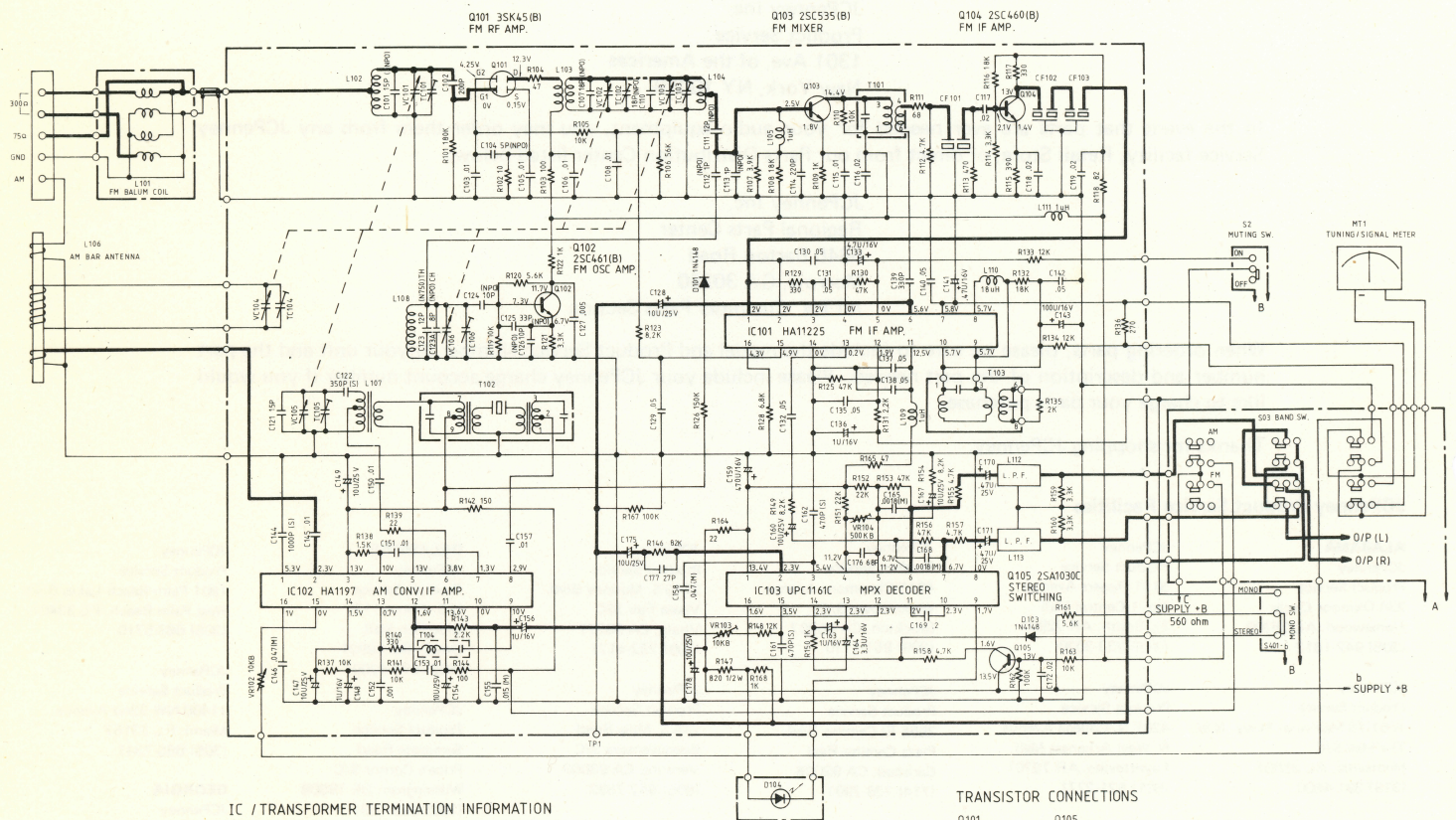
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FM MIX



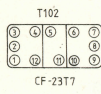
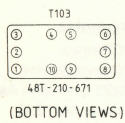
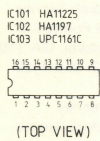


# DIAGRAM

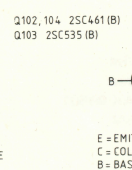
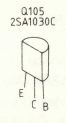
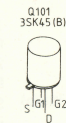
Q104 2SC460C  
FM IF



## IC / TRANSFORMER TERMINATION INFORMATION



## TRANSISTOR CONNECTIONS



(BOTTOM VIEWS)



# JCPenney

# IMPORTANT SERVICE

# INFORMATION

JCPenney would like to thank you for purchasing your new audio equipment from us. It's a privilege to have you as a customer, and we know you'll enjoy your purchase for many years to come.

If there are any questions regarding the operation of your new equipment, or if you need to have it serviced, you may use the enclosed directory to locate your nearest JCPenney Service facility. You may also contact your nearest JCPenney Store or write to:

JCPenney Inc.  
Product Service  
1301 Ave. of the Americas  
New York, NY 10019

In the event that parts are ever needed for your audio equipment, you may order them from any JCPenney Service facility, Retail Store, or direct from our Parts Distribution Center listed below:

JCPenney Inc.  
Regional Parts Center  
6840 Barton Road  
Morrow, GA 30260  
ATTN: Customer Parts Section

When ordering parts, please be sure to include the model and Product Service Number of your unit and the part number and description of the part needed. Please include your JCPenney charge account number if you would like to charge your parts purchase.

Thanks for shopping JCPenney.

## JCPenney Product Service Facilities

### ALABAMA

JCPenney  
Product Service  
234 Oxmoor Circle  
Homewood, AL 35209  
(205) 942-1812

JCPenney  
Product Service  
1001-16 Memorial Pkwy. N.W.  
The Mall S/C  
Huntsville, AL 35801  
(319) 391-4800

### ALASKA

JCPenney  
Product Service  
405 5th Avenue  
Anchorage, AK 99501  
(907) 279-5656

JCPenney  
Product Service  
610 Cushman St.  
Fairbanks, AK 99701  
(907) 452-5131

### ARIZONA

JCPenney  
Product Service  
El Con Shopping Center  
3501 East Broadway  
Tucson, AZ 85716  
(602) 881-2200

JCPenney  
Product Service  
2413 So. 21st Street  
Phoenix, AZ 85034  
(602) 243-7409

### ARKANSAS

JCPenney  
Product Service  
69th Street & Scott Hamilton  
Drive, Suite B  
Little Rock, AR 72205  
(501) 562-0071

JCPenney  
Product Service  
5111 Rogers Avenue  
No. 1 Central Mall  
Ft. Smith, AR 72901  
(318) 233-3020

JCPenney  
Product Service  
4201 N. College Avenue  
N. West Arkansas Mall  
Fayetteville, AR 72701  
(501) 521-2771

### CALIFORNIA

JCPenney  
Product Service  
P.O. Box 4888 (Mailing)  
6131 Orangethorpe Ave. (Ship)  
Buena Park, CA 90624  
(714) 523-6481

JCPenney  
Product Service  
31911 Hayman Street  
Hayward, CA 94544  
(415) 489-5401

JCPenney  
Product Service  
800 North Grand  
Covina, CA 91724  
(213) 967-9641

JCPenney  
Product Service  
3333 Orange Grove Avenue  
No. Highlands, CA 95660  
(916) 488-4680

JCPenney  
Product Service  
8103 Orion Avenue  
Van Nuys, CA 91406  
(213) 782-0940

JCPenney  
Product Service  
4915 Claremont Avenue  
Weberstown S/C  
Stockton, CA 95207  
(209) 951-1110

JCPenney  
Product Service  
2555 El Camino Real  
Plaza Camino Real  
Carlsbad, CA 92008  
(714) 729-7991

JCPenney  
Product Service  
202 Fashion Valley  
Fashion Valley S/C  
San Diego, CA 92108  
(714) 291-6050

JCPenney  
Product Service  
555 E. Shaw Avenue  
Fresno, CA 93710  
(209) 224-8330

JCPenney  
Product Service  
801 East Avenue  
North Valley Plaza S/C  
Chico, CA 95926  
(916) 345-2451

JCPenney  
Product Service  
800 Coddington Center  
Coddington S/C  
Santa Rosa, CA 95401  
(707) 542-2014

JCPenney  
Product Service  
1523 Main Street  
Valley Plaza S/C  
El Centro, CA 92243  
(714) 352-9510

JCPenney  
Product Service  
2115 S. Mooney Blvd.  
Visala Fair S/C  
Visala, CA 93277  
(209) 732-4171

JCPenney  
Product Service  
245 S. Mills Road  
Buenaventura S/C  
Ventura, CA 93003  
(805) 642-7592

JCPenney  
Product Service  
1330 Travis Blvd.  
Solano Mall  
Fairfield, CA 94533  
(707) 422-0320

### COLORADO

JCPenney  
Product Service  
680 Citadel Dr. E.  
The Citadel  
Colorado Springs, CO 80909  
(303) 597-0050

JCPenney  
Product Service  
2630 West 2nd Avenue  
Denver, CO 80219  
(303) 753-7850

JCPenney  
Product Service  
3301 Dillion Drive  
Pueblo Mall  
Pueblo, CO 81003  
(303) 545-2893

### CONNECTICUT

JCPenney  
Product Service  
90 Progress Drive  
Manchester Industrial Park  
Manchester, CT 06040  
(203) 643-1167

### DELAWARE

JCPenney  
Product Service  
U.S. Route 113  
Blue Hen Mall  
Dover, DE 19901  
(302) 674-4200

JCPenney  
Product Service  
Seminole Road  
Price's Cornor S/C  
Wilmington, DE 19808  
(302) 998-1131

### FLORIDA

JCPenney  
Product Service  
4223 Cleveland Avenue  
Edison Mall S/C  
Ft. Myers, FL 33901  
(813) 936-8101

JCPenney  
Product Service  
5211 Fairmont Street  
Jacksonville, FL 32207  
(904) 398-8371

JCPenney  
Product Service  
1224 West Amelia Avenue  
Orlando, FL 32805  
(305) 425-9055

JCPenney  
Product Service  
4278 - 28th Street, North  
St. Petersburg, FL 33714  
(813) 521-1831

JCPenney  
Product Service  
575 Barton Boulevard  
Rockledge, FL 32953  
(305) 636-7332

JCPenney  
Product Service  
1801 Palm Beach Lakes Blvd.  
West Palm Beach, FL 33401  
(305) 683-5710

JCPenney  
Product Service  
11400 NW 32nd Avenue  
Miami, FL 33167  
(305) 685-7341

### GEORGIA

JCPenney  
Product Service  
Five Points S/C  
Valdosta, GA 31601  
(912) 244-4150

JCPenney  
Product Service  
5998 Peachtree Road  
Atlanta, GA 30341  
(404) 458-8866

JCPenney  
Product Service  
Satilla Square  
City Blvd. & Knights Avenue  
Waycross, GA 31501  
(912) 283-2655

JCPenney  
Product Service  
216 Baldwin Drive  
Albany, GA 31705  
(912) 435-1401

JCPenney  
Product Service  
Lakeshore Plaza S/C  
Gainesville, GA 30501  
(404) 532-3151



JCPenney  
Product Service  
Macon & Ridgion Road  
Columbus Square S/C  
P.O. Box 6190  
Columbus, GA 31906  
(404) 561-5850

**HAWAII**  
JCPenney  
Product Service  
716 Umi Street  
Honolulu, HI 96819  
(808) 847-5711

**IDAHO**  
JCPenney  
Product Service  
1435 Caldwell Blvd.  
Karcher Mall  
Nampa, ID 83651  
(208) 466-8951

**ILLINOIS**  
JCPenney  
Product Service  
5301 Keystone Court  
Rolling Meadows, IL 60008  
(312) 398-8200

**INDIANA**  
JCPenney  
Product Service  
8018 Castleway Drive  
Indianapolis, IN 46250  
(317) 849-6800

JCPenney  
Product Service  
7800 So. Anthony Blvd.  
Ft. Wayne, IN 46816  
(219) 447-6171

JCPenney  
Product Service  
201 West U.S. 20  
Marquette Mall  
Michigan City, IN 46360  
(219) 879-7361

**IOWA**  
JCPenney  
Product Service  
Crossroads S/C  
Waterloo, IA 50702  
(319) 232-6611

**KANSAS**  
JCPenney  
Product Service  
2828 So. 44th St.  
Kansas City, KS 66106  
(913) 362-3200

JCPenney  
Product Service  
7700 E. Kellogg Avenue  
Towne East Square  
Wichita, KS 67207  
(316) 685-6261

**KENTUCKY**  
JCPenney  
Product Service  
535 Rivercity Mall  
Louisville, KY 40202  
(502) 361-7153

**LOUISIANA**  
JCPenney  
Product Service  
1040 Hawn Avenue  
Shreveport, LA 71107  
(318) 221-8511

JCPenney  
Product Service  
1605 Louisville Avenue  
Mid-City Plaza S/C  
Monroe, LA 71201  
(318) 325-0683

JCPenney  
Product Service  
296 Frontage Road  
Northgate S/C  
Lafayette, LA 70501  
(318) 233-3020

JCPenney  
Product Service  
312 W. Prien Lake Rd.  
Prien Lake Mall  
Lake Charles, LA 70601  
(318) 478-5110

**MICHIGAN**  
JCPenney  
Product Service  
32036 Edward Street  
Madison Heights, MI 48071  
(313) 585-2070

JCPenney  
Product Service  
3225 28th Street, S.E.  
Woodland Mall  
Grand Rapids, MI 49508  
(616) 949-7600

**MINNESOTA**  
JCPenney  
Product Service  
5731 Washington Ave., South  
Edina, MN 55436  
(612) 935-0321

JCPenney  
Product Service  
4301-20 Division Street  
Crossroads Center S/C  
St. Cloud, MN 56301  
(612) 252-6020

JCPenney  
Product Service  
101 Apache Mall  
Rochester, MN 55901  
(507) 288-8383

**MISSISSIPPI**  
JCPenney  
Product Service  
350 Woodrow Wilson Drive  
Jackson Mall S/C  
Jackson, MS 39213  
(601) 982-5110

**MISSOURI**  
JCPenney  
Product Service  
2258 Schuetz Road  
St. Louis, MO 63141  
(314) 872-8060 & 8063

JCPenney  
Product Service  
200 Battlefield Mall  
Battlefield Mall S/C  
Springfield, MO 65804  
(417) 883-4220

JCPenney  
Product Service  
East Hills S/C  
St. Joseph, MO 64502  
(816) 279-6381

JCPenney  
Product Service  
601 Business Loop 70 West  
Parkade Plaza S/C  
Columbia, MO 65201  
(314) 449-1281

JCPenney  
Product Service  
101 Range Line  
North Park Mall  
Joplin, MO 64801  
(417) 623-5700

**NEBRASKA**  
JCPenney  
Product Service  
8801 "F" Street  
Omaha, NE 68127  
(402) 331-4000

**NEVADA**  
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3542 Maryland Parkway  
Las Vegas S/C  
Las Vegas, NV 89109  
(702) 735-5131

**NEW JERSEY**  
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Product Service  
35 Cotters Lane  
Highview Industrial Park  
East Brunswick, NJ 08816  
(201) 257-3840

JCPenney  
Product Service  
41 East Crescent Blvd.  
Camden, NJ 08103  
(609) 854-5556

**NEW MEXICO**  
JCPenney  
Product Service  
39 Winrack Center  
Albuquerque, NM 87110  
(505) 298-6811

**NEW YORK**  
JCPenney  
Product Service  
10 Sonwil Drive  
Cheektowaga, NY 14225  
(716) 685-2200

JCPenney  
Product Service  
684 N. Queens Avenue  
Lindenhurst, NY 11757  
(516) 884-1700

**NORTH CAROLINA**  
JCPenney  
Product Service  
8420 Triad Drive  
Colfax, NC 27235  
(919) 668-0432

JCPenney  
Product Service  
300 Cross Creek Mall  
Morganton Road & 401 BP  
Fayetteville, NC 28303  
(919) 864-2525

JCPenney  
Product Service  
802 Hardee Road  
Vernon Park Mall  
Kingston, NC 28501  
(919) 527-5041

JCPenney  
Product Service  
100 North Hills S/C  
Raleigh, NC 27609  
(919) 787-4920

JCPenney  
Product Service  
Highway 64-70  
Catawba Mall S/C  
Hickory, NC 28601  
(704) 328-2661

**NORTH DAKOTA**  
JCPenney  
Product Service  
Sixth & Main St.  
Bismarck, ND 58501  
(701) 223-1090

**OHIO**  
JCPenney  
Product Service  
5352 Jackman Road  
Toledo, OH 43613  
(419) 476-9515

JCPenney  
Product Service  
4849 Groveport Road  
Columbus, OH 43207  
(614) 491-8750

JCPenney  
Product Service  
Fort Findlay Village  
Findlay, OH 45840  
(419) 422-9022

JCPenney  
Product Service  
5245 Southway, S.W.  
Canton, OH 44706  
(216) 477-7284

JCPenney  
Product Service  
6836 Engle Road  
Cleveland, OH 44130  
(216) 826-0265/66

JCPenney  
Product Service  
125 Westpark Road  
Centerville, OH 45459  
(513) 433-0676

JCPenney  
Product Service  
8745 Munson Road, Dock B  
Mentor, OH 44060  
(216) 255-6096

JCPenney  
Product Service  
143 Boardman-Canfield Road  
Youngstown, OH 44512  
(216) 758-0831

**OKLAHOMA**  
JCPenney  
Product Service  
4239 Will Rogers Parkway  
Oklahoma City, OK 73108  
(405) 946-5696

JCPenney  
Product Service  
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Tulsa, OK 74136  
(918) 664-9133

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19333 N.E. San Rafael St.  
Portland, OR 97232  
(503) 775-4337

JCPenney  
Product Service  
300 Valley River Center  
Valley River S/C  
Eugene, OR 97401  
(503) 342-6211

**PENNSYLVANIA**  
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Product Service  
650 Seco Road  
Monroeville, PA 15146  
(412) 373-2404

JCPenney  
Product Service  
1663 Republic Road  
Huntington Valley, PA 19006  
(215) 322-8010/11/12

JCPenney  
Product Service  
702 Pointview Avenue  
Eprata, PA 17522  
(717) 733-0371

JCPenney  
Product Service  
Goods Lane & Plank Road  
Logan Valley Mall S/C  
Altoona, PA 16601  
(814) 944-5081

**PUERTO RICO**  
JCPenney  
Product Service  
R.F.D. #3 Box 41-P  
Rio Piedras, PR 00625  
(809) 789-9301

**SOUTH CAROLINA**  
JCPenney  
Product Service  
Pleasantburg Industrial Park  
Commercial Drive  
Greenville, SC 29607  
(803) 235-1671

**TENNESSEE**  
JCPenney  
Product Service  
West Town S/C  
7600A Kingston Pike S.W.  
Knoxville, TN 38919  
(615) 693-4110

JCPenney  
Product Service  
100 Oaks Shopping Center  
Powell Ave. & Thompson Lane  
Nashville, TN 37204  
(206) 252-4111

JCPenney  
Product Service  
620-32 Plaza Shopping Center  
Morristown Plaza S/C  
Morristown, TN 37814  
(615) 586-9210

JCPenney  
Product Service  
522 Northgate Mall  
Chattanooga, TN 37415  
(615) 877-2491

**TEXAS**  
JCPenney  
Product Service  
6002 Slide Road-Bldg. A  
South Plains Mall  
Lubbock, TX 79414  
(806) 792-6841

JCPenney  
Product Service  
6455 Eastex Freeway  
Parkdale Mall  
Beaumont, TX 77706  
(713) 898-2552

JCPenney  
Product Service  
4143 Valley View Lane  
Dallas, TX 75234  
(214) 387-6950

JCPenney  
Product Service  
10600 Hempstead H'way 100  
Suite 100  
Houston, TX 77008  
(713) 686-4303

JCPenney  
Product Service  
3115 Erie Street  
Forth Worth, TX 76112  
(817) 457-1860

JCPenney  
Product Service  
5014 Airpark Drive  
San Antonio, TX 78227  
(512) 435-4293

JCPenney  
Product Service  
5502 S. Padre Island Dr.  
Padre Staples Mall  
Corpus Christi, TX 78411  
(512) 991-7251

JCPenney  
Product Service  
2300 Highland Mall S/C  
Austin, TX 78752  
(512) 452-9262

JCPenney  
Product Service  
Town Plaza S/C  
Victoria, TX 77901  
(512) 578-1511

JCPenney  
Product Service  
100 Sher-Den Mall  
Sherman, TX 75090  
(214) 893-7566

JCPenney  
Product Service  
11 Sunset Shopping Center  
Amarillo, TX 79102  
(806) 355-7241

**UTAH**  
JCPenney  
Product Service  
1735 S. Redwood Road  
Salt Lake City, UT 84104  
(801) 350-2246

**VERMONT**  
JCPenney  
Product Service  
29 Church Street  
Burlington, VT 05401  
(419) 422-9022

**VIRGINIA**  
JCPenney  
Product Service  
3211 Colvin Street  
Alexandria, VA 22314  
(703) 751-4850

JCPenney  
Product Service  
5611 Pride Road  
Richmond, VA 23224  
(804) 231-4443

JCPenney  
Product Service  
601 Woodis Avenue  
Norfolk, VA 23510  
(804) 623-6192

JCPenney  
Product Service  
Tanglewood Mall  
Rte. 419 & Rte. 220  
Roanoke, VA 24014  
(704) 328-2661

JCPenney  
Product Service  
West Main Street  
Ballou Park S/C  
Danville, VA 24541  
(804) 793-0021

**WASHINGTON**  
JCPenney  
Product Service  
730 No. Hamilton  
Spokane, WA 99220  
(509) 484-3250

JCPenney  
Product Service  
17200 Southcenter Parkway  
Seattle, WA 98188  
(206) 575-0888

JCPenney  
Product Service  
100 Columbia Center  
Columbia City S/C  
Kennewick, WA 99336  
(509) 783-4111

**WISCONSIN**  
JCPenney  
Product Service  
6817 W. Morgan Avenue  
Milwaukee, WI 53220  
(414) 541-3880